ABSTRACT

A boost converter for use in a transceiver. The boost converter includes an inductor that is connected to a power supply. A switch is coupled to the inductor and to the return of the power supply when the switch is closed. A diode is coupled to the inductor. A capacitor is coupled between the diode and the return of the power supply with an output voltage being present across the power supply. A microprocessor is coupled to the output voltage. The microprocessor produces a pulse width modulated signal in response to the output voltage. The pulse width modulated signal is coupled through a gate to a pulse train to produce a modulated pulse train. The modulated pulse train is used to control the switch. The modulated pulse train turns the switch on and off in a manner that drives the output voltage to a particular voltage.

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